

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

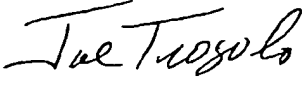
**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

**APPLICATION FOR UNITED STATES PATENT  
DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I declare that my residence, post office address and citizenship are as stated below next to my name; that I verily believe that I am the original, first and sole inventor if only one name is listed below, or an original, first and joint inventor if plural inventors are named below, of the subject matter which is claimed and for which a patent is sought on the invention entitled as set forth below, which is described in the attached specification; that I have reviewed and understand the contents of the specification, including the claims, as amended by any amendment specifically referred to in the oath or declaration; that no application for patent or inventor's certificate on this invention has been filed by me or my legal representatives or assigns in any country foreign to the United States of America; and that I acknowledge my duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, section 1.56;

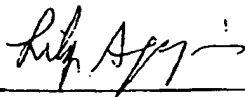
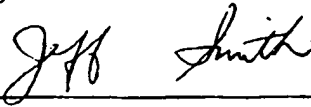
I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

<b>TITLE OF INVENTION:</b> <b>TRANSISTORS FORMED WITH GRID OR ISLAND IMPLANTATION MASKS TO FORM REDUCED DIFFUSION-DEPTH REGIONS WITHOUT ADDITIONAL MASKS AND PROCESS STEPS</b>		
<b>POWER OF ATTORNEY:</b> I HEREBY APPOINT THE FOLLOWING ATTORNEYS TO PROSECUTE THIS APPLICATION AND TRANSACT ALL BUSINESS IN THE PATENT AND TRADEMARK OFFICE CONNECTED THEREWITH.  Practitioners at Customer Number: 23494      Thomas G. Eschweiler, Reg. No. 36,981 Eric M. Highman, Reg. No. 43,672 Gregory J. Adams, Reg. No. 44,494 William J. Cooper, Reg. No. 44,629		
<b>SEND CORRESPONDENCE TO:</b>  Jacqueline J. Garner Texas Instruments Incorporated PO Box 655474, M/S 3999 Dallas, TX 75265		<b>DIRECT TELEPHONE CALLS TO:</b>  Jacqueline J. Garner (214) 532-9348
<b>NAME OF INVENTOR: (1)</b> Joe R. Trogolo	<b>NAME OF INVENTOR: (2)</b>	<b>NAME OF INVENTOR: (3)</b>
<b>RESIDENCE (City and State Only)</b> Plano, Texas 75023	<b>RESIDENCE (City and State Only)</b>	<b>RESIDENCE (City and State Only)</b>
<b>Post Office Address:</b> 2712 Glen Forest Lane Plano, Texas 75023	<b>Post Office Address:</b>	<b>Post Office Address:</b>
<b>Country of Citizenship:</b> United States	<b>Country of Citizenship:</b>	<b>Country of Citizenship:</b>
<b>Signature of Inventor:</b> 	<b>Signature of Inventor:</b>	<b>Signature Of Inventor:</b>
<b>Date:</b> 12/3/2002	<b>Date:</b>	<b>Date:</b>

**APPLICATION FOR UNITED STATES PATENT  
DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I declare that my residence, post office address and citizenship are as stated below next to my name; that I verily believe that I am the original, first and sole inventor if only one name is listed below, or an original, first and joint inventor if plural inventors are named below, of the subject matter which is claimed and for which a patent is sought on the invention entitled as set forth below, which is described in the attached specification; that I have reviewed and understand the contents of the specification, including the claims, as amended by any amendment specifically referred to in the oath or declaration; that no application for patent or inventor's certificate on this invention has been filed by me or my legal representatives or assigns in any country foreign to the United States of America; and that I acknowledge my duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, section 1.56;

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

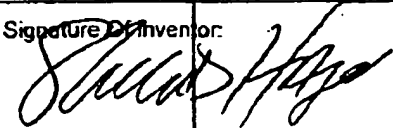
<b>TITLE OF INVENTION:</b> <b>TRANSISTORS FORMED WITH GRID OR ISLAND IMPLANTATION MASKS TO FORM REDUCED DIFFUSION-DEPTH REGIONS WITHOUT ADDITIONAL MASKS AND PROCESS STEPS</b>		
<b>POWER OF ATTORNEY:</b> I HEREBY APPOINT THE FOLLOWING ATTORNEYS TO PROSECUTE THIS APPLICATION AND TRANSACT ALL BUSINESS IN THE PATENT AND TRADEMARK OFFICE CONNECTED THEREWITH.  <div style="display: flex; justify-content: space-between;"> <div> Practitioners at Customer Number: 23494 </div> <div> Thomas G. Eschweiler, Reg. No. 36,981  Eric M. Highman, Reg. No. 43,672  Gregory J. Adams, Reg. No. 44,494  William J. Cooper, Reg. No. 44,629 </div> </div>		
<b>SEND CORRESPONDENCE TO:</b>  Jacqueline J. Garner Texas Instruments Incorporated PO Box 655474, M/S 3999 Dallas, TX 75265		<b>DIRECT TELEPHONE CALLS TO:</b>  Jacqueline J. Garner (214) 532-9348
<b>NAME OF INVENTOR:</b> (1) Lily Springer	<b>NAME OF INVENTOR:</b> (2) Jeff Smith	<b>NAME OF INVENTOR:</b> (3) Sheldon Haynie
<b>RESIDENCE (City and State Only)</b> Dallas, Texas	<b>RESIDENCE (City and State Only)</b> Plano, Texas	<b>RESIDENCE (City and State Only)</b> Amherst, New Hampshire
<b>Post Office Address:</b> 2840 Daniel Avenue Dallas, Texas 75250	<b>Post Office Address:</b> 3328 Caleo Court Plano, Texas 75025	<b>Post Office Address:</b> 3 Storybrook Lane Amherst, New Hampshire 03031
<b>Country of Citizenship:</b> United States	<b>Country of Citizenship:</b> United States	<b>Country of Citizenship:</b> United States
<b>Signature of Inventor:</b> 	<b>Signature of Inventor:</b> 	<b>Signature Of Inventor:</b> 
<b>Date:</b> 11/25/2002	<b>Date:</b> 12/7/02	<b>Date:</b> 

ATTORNEY DOCKET NO.  
TI-34338

**APPLICATION FOR UNITED STATES PATENT**  
**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I declare that my residence, post office address and citizenship are as stated below next to my name; that I verily believe that I am the original, first and sole inventor if only one name is listed below, or an original, first and joint inventor if plural inventors are named below, of the subject matter which is claimed and for which a patent is sought on the invention entitled as set forth below, which is described in the attached specification; that I have reviewed and understand the contents of the specification, including the claims, as amended by any amendment specifically referred to in the oath or declaration; that no application for patent or inventor's certificate on this invention has been filed by me or my legal representatives or assigns in any country foreign to the United States of America; and that I acknowledge my duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, section 1.56;

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

<b>TITLE OF INVENTION:</b> <b>TRANSISTORS FORMED WITH GRID OR ISLAND IMPLANTATION MASKS TO FORM REDUCED DIFFUSION-DEPTH REGIONS WITHOUT ADDITIONAL MASKS AND PROCESS STEPS</b>		
<b>POWER OF ATTORNEY:</b> I HEREBY APPOINT THE FOLLOWING ATTORNEYS TO PROSECUTE THIS APPLICATION AND TRANSACT ALL BUSINESS IN THE PATENT AND TRADEMARK OFFICE CONNECTED THEREWITH.  Practitioners at Customer Number: 23494      Thomas G. Eschweiler, Reg. No. 36,981 Eric M. Highman, Reg. No. 43,672 Gregory J. Adams, Reg. No. 44,494 William J. Cooper, Reg. No. 44,629		
<b>SEND CORRESPONDENCE TO:</b>  Jacqueline J. Garner Texas Instruments Incorporated PO Box 655474, M/S 3999 Dallas, TX 75265		<b>DIRECT TELEPHONE CALLS TO:</b>  Jacqueline J. Garner (214) 532-9848
<b>NAME OF INVENTOR:</b> (1) <b>Lily Springer</b>	<b>NAME OF INVENTOR:</b> (2) <b>Jeff Smith</b>	<b>NAME OF INVENTOR:</b> (3) <b>Sheldon Haynie</b>
<b>RESIDENCE (City and State Only)</b> <b>Dallas, Texas</b>	<b>RESIDENCE (City and State Only)</b> <b>Plano, Texas</b>	<b>RESIDENCE (City and State Only)</b> <b>Amherst, New Hampshire</b>
<b>Post Office Address:</b> <b>2840 Daniel Avenue</b> <b>Dallas, Texas 75250</b>	<b>Post Office Address:</b> <b>3328 Caleo Court</b> <b>Plano, Texas 75025</b>	<b>Post Office Address:</b> <b>3 Storybrook Lane</b> <b>Amherst, New Hampshire 03031</b>
<b>Country of Citizenship:</b> <b>United States</b>	<b>Country of Citizenship:</b> <b>United States</b>	<b>Country of Citizenship:</b> <b>United States</b>
<b>Signature of Inventor:</b>	<b>Signature of Inventor:</b>	<b>Signature of Inventor:</b> 
<b>Date:</b>	<b>Date:</b>	<b>Date:</b> <b>12/05/02</b>